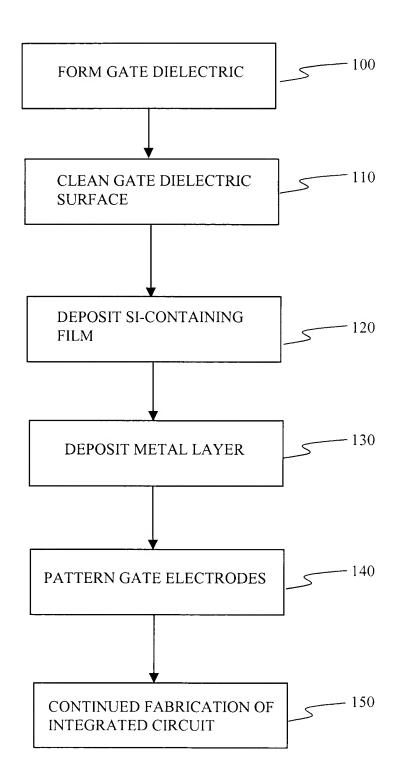


FIGURE 1



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FIGURE 2

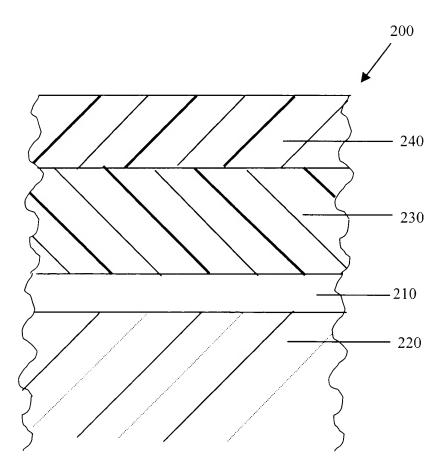
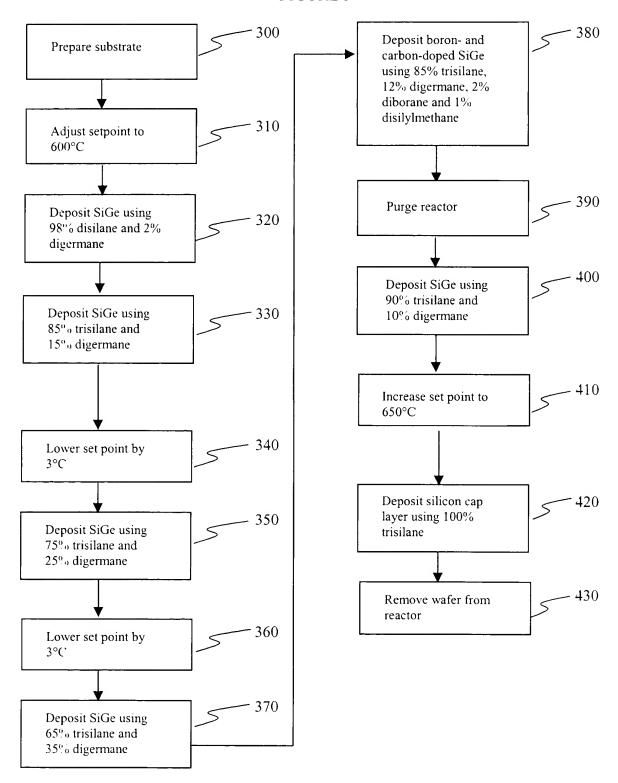
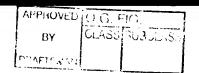




FIGURE 3





Ge

Figure 4: Preferred Ge concentration profile for epitaxial Si-Ge layer in base layer of a heterojunction bipolar transistor

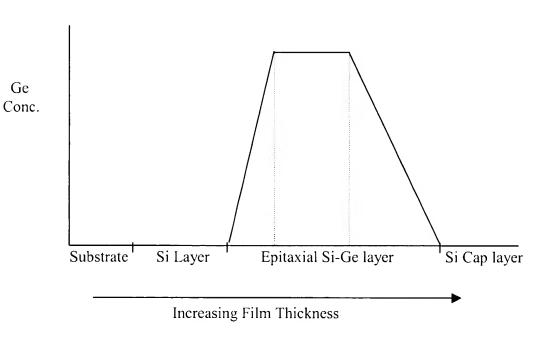


Figure 5: Film Composition and Deposition Rate as a Function of Germane Flow Rate Using Silane at 600°C

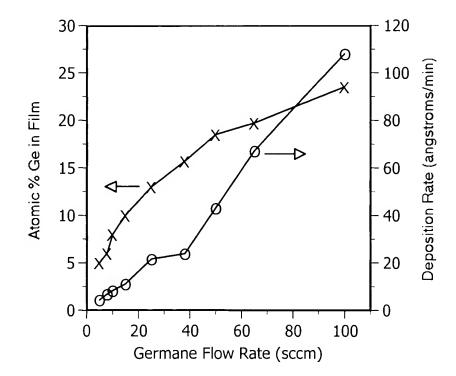


Figure 6: Film Composition and Deposition Rate as a Function of Germane Flow Rate Using Silane at 625°C

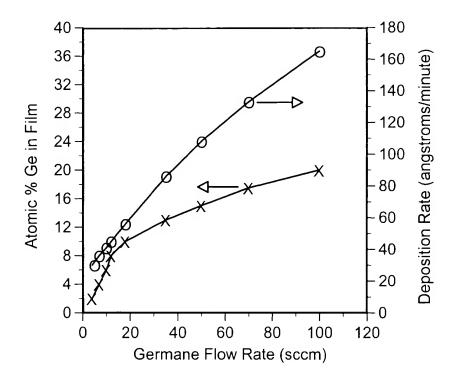
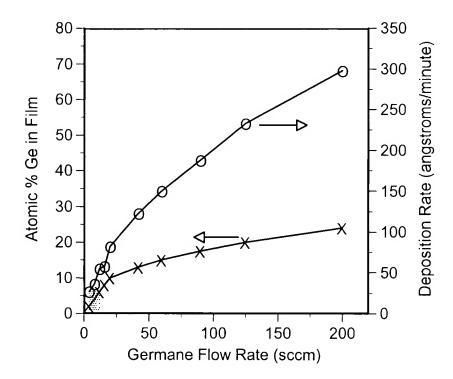
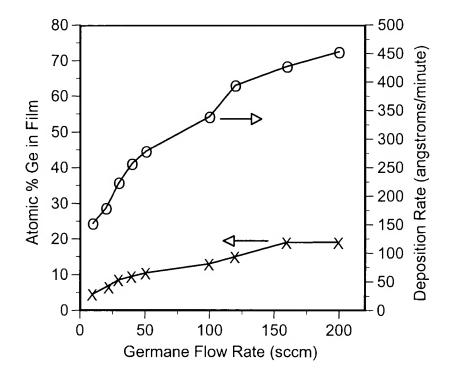


Figure 7: Film Composition and Deposition Rate as a Function of Germane Flow Rate Using Silane at 650°C



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Figure 8: Film Composition and Deposition Rate as a Function of Germane Flow Rate Using Silane at 700°C



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Figure 9: Film Composition and Deposition Rate as a Function of Germane Flow Rate Using Trisilane at 600°C (H₂ Flow Rate = 20 slm)

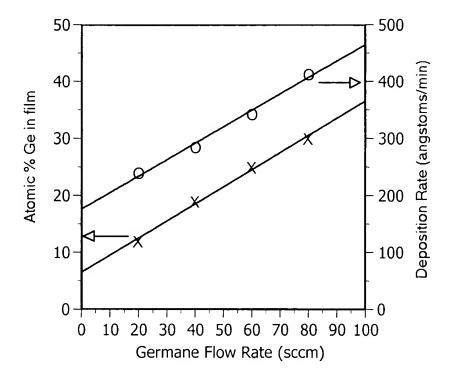
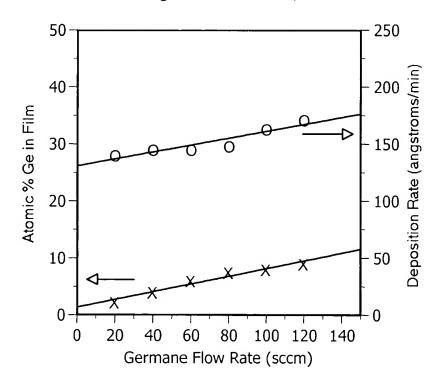


Figure 10: Film Composition and Deposition Rate as a Function of Germane Flow Rate Using Trisilane at 600° C (H₂ Flow Rate = 30 slm)



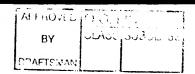
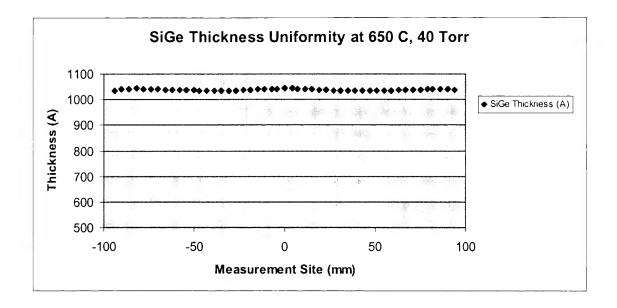


FIGURE 11



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FIGURE 12 SEM Photomicrograph of Si-Ge Film Deposited Using Silane and Germane

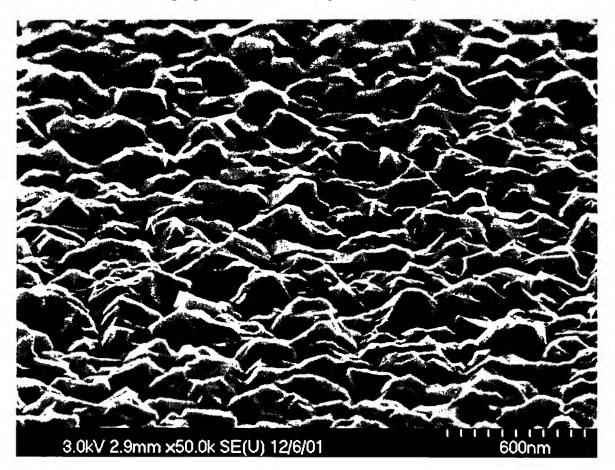


FIGURE 13
SEM Photomicrograph of Si-Ge Film Deposited Using Silane and Germane

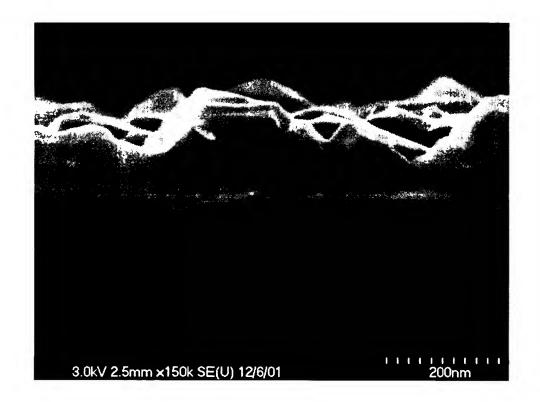


FIGURE 14
SEM Photomicrograph of Si-Ge Film Deposited Using Trisilane and Germane

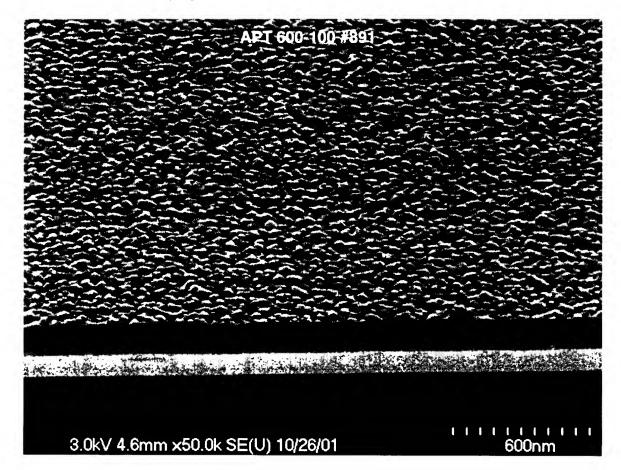


FIGURE 15
SEM Photomicrograph of Si-Ge Film Deposited Using Trisilane and Germane

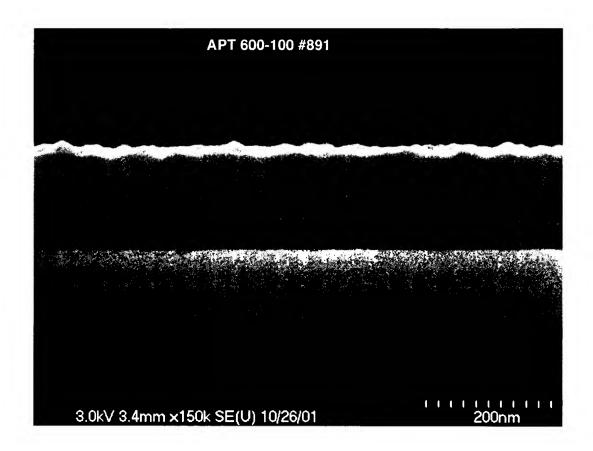


FIGURE 16
ARRHENIUS PLOT FOR SILANE, DISILANE AND TRISILANE

